

METHOD AND APPARATUS FOR SPEAKER IDENTIFICATION

ABSTRACT OF THE INVENTION

Disclosed is a method of automated speaker identification, comprising receiving a sample speech input signal from a sample handset; deriving a cepstral covariance sample matrix from said first sample speech signal;
5 calculating, with a distance metric, all distances between said sample matrix and one or more cepstral covariance signature matrices; determining if the smallest of said distances is below a predetermined threshold value; and wherein said distance metric is selected from $d_5(S, \Sigma) = A + \frac{1}{H} - 2$,

10 $d_6(S, \Sigma) = (A + \frac{1}{H})(G + \frac{1}{G}) - 4$, $d_7(S, \Sigma) = \frac{A}{2H}(G + \frac{1}{G}) - 1$, $d_8(S, \Sigma) = \frac{(A + \frac{1}{H})}{(G + \frac{1}{G})} - 1$,

$d_9(S, \Sigma) = \frac{A}{G} + \frac{G}{H} - 2$, fusion derivatives thereof, and fusion derivatives thereof

with $d_1(S, \Sigma) = \frac{A}{H} - 1$.